

FAK1 Human

Description: Active Focal Adhesion Kinase full length Human Recombinant is a 146.7 kDa enzyme produced in Sf9 cells with an amino-terminal GST tag and purified via sequential chromatography. PTK2 is activated in-vitro by his tagged SRC.

Catalog #:PKPS-319

Synonyms: Focal adhesion kinase 1, EC 2.7.10.2, FADK 1, pp125FAK, Protein-tyrosine kinase 2, FAK, FADK, FAK1.

For research use only.

Source: Baculovirus, SF9 insect cells.

Amino Acid Sequence: MAPILGYWKI KGLVQPTRL L LEYLEEKYEE HLYRDEGDK
WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL
DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD
VVLYMDPMCL DAFPKLVCFK KRIEAIQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD
LVPRHNQTSL YK

Purity: Greater than 70% as determined by SDS-PAGE.

Formulation:

FADK is supplied in 50mM Tris pH-7.5, 150mM NaCl, 0.5mM EDTA, 0.02% Triton X-100, 2mM DTT, & 50% Glycerol.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

FAK is a cytoplasmic protein tyrosine kinase which is found concentrated in the focal adhesions that form between cells growing in the presence of extracellular matrix constituents. The encoded protein is a member of the FAK subfamily of protein tyrosine kinases but lacks significant sequence similarity to kinases from other subfamilies. Activation of this gene may be an important early step in cell growth and intracellular signal transduction pathways triggered in response to certain neural peptides or to cell interactions with the extracellular matrix. At least four transcript variants encoding four different isoforms have been found for this gene, but the full-length natures of only two of them have been determined.

Biological Activity:

72 nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate/minute/mg of total protein at 30°C. Activity determined at a final protein concentration of 4g/ml.

Storage:

Store at 4°C if entire vial will be used within 1-2 weeks. Store, frozen at -20°C to -80°C for longer periods of time. Avoid multiple freeze-thaw cycles.

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